THE REAL SOUND

DVD
DV-100

Instruction manual

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WARNING & IMPORTANT

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns the user of un-insulated voltage within the unit that can cause dangerous electric shocks.

This symbol alerts the user that there are important operating and maintenance instruction in the literature accompanying this unit.

CAUTION:

THIS DVD VIDEO PLAYER IS A CLASS 1 LASER PRODUCT. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOUSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, Including interference that may cause undesired operation.

INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Note:

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

IMPORTANT SAFEGUARDS AND PRECAUTIONS

READ THE SAFETY AND OPERATING INSTRUCTION before operating your DVD-receiver.
FOLLOW INSTRUCTIONS AND HEED ALL WARNINGS on your DVD player in this manual.

1. Save these instructions for later use.

2. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

3. Do not use this DVD-receiver near water.

4. Do not place this DVD-receiver on an unstable cart, stand or table. The DVD-receiver may fall, causing serious damage to the DVD-receiver.

5. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the DVD-receiver and to protect it from overheating, those openings must not be blocked or covered. Placing the DVD-receiver on a bed, sofa, rug, or other similar surface should never block the openings. This DVD player should never be placed near or over a radiator or heat register. This DVD-receiver should not be placed in a built-in installation unless proper ventilation is provided.

6. This DVD-receiver should be operated from the type of power source indicated on the marketing label. If you are not sure of the type of power available, consult your dealer or local service.

7. As a safety feature, your DVD-receiver is equipped with either a 2-wire EU class-II plug (UK optional adaptor necessary for UK) or a 3-wire grounded plug (a third pin for grounding). The 3-wire grounded plug will fit only into a grounding-type power outlet.

8. Do not allow anything to rest on the power cord. Do not locate this DVD-receiver where persons will walk on the cord.

9. If an extension cord is used with this DVD-receiver, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating.

10. Never push objects of any kind into this DVD-receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the DVD-receiver.

11. Do not attempt to service this DVD-receiver yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.

12. An appliance and cart combination should be moved with care. Quick stop, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

13. Unplug this DVD-receiver during lightning storms or unused for long periods of time.

14. Unplug this DVD-receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:

A. When the power cord or plug is damaged or frayed.

B. If liquid has been spilled into the DVD-receiver.

C. If the DVD-receiver has been exposed to rain or water.

D. If the product has been dropped or the cabinet has been damaged.

E. If the product exhibits a distinct change in performance, indicating a need for service.

This digital versatile disc (DVD) video player uses NTSC video signals and 100-240V AC, 50/60Hz (standard household current).
For future reference, record the model and serial number (located on the rear of the DVD-receiver) in the space provided.

Model No: _____

Serial No: _____

FEATURES

Compatible With DVD, Super VCD, VCD, CDDA, CVD, CD-DVD, Mini-DVD and MP3 Media Format.

This DVD player can play a variety of disc media including DVD Video, Video CD, CDDA, Super VCD, CVD, CD-DVD, Mini-DVD and MP3 media format.

S-Video Output

This DVD player's S-Video output can send DVD video signals directly to a S-Video input-equipped television without the degradation of video quality.

2 Channel Analog Audio Output

This DVD player can output down mixed audio with LT/RT, Stereo and VSS modes.

Virtual 3D Surround Sound

This DVD player features the virtual 3D surround sound effect through standard analog outputs.

Coaxial Digital Audio Outputs

The DVD player features one coaxial digital audio output. User selectable SPDIF/RAW and SPDIF/PCM digital audio maximizes convenience when switching between DVD and CD playback.

Dolby® Digital & DTS® Digital Audio Output Support

This DVD player can send Dolby® Digital or DTS® Digital audio data via its built-in digital audio output to an external Dolby® Digital or DTS® Digital decoder.

High Quality 96kHz/24bit Audio D/A Converter

This DVD player features a 96KHz/24Bit D/A converter for superior audio reproduction of encoded discs.

10-Bit 27Mhz D/A Video Converter

This DVD player's 10-bit D/A converter is four times more accurate than conventional 8-bit converters. The result is artifact-free and crystal clear video image.

Auto NTSC and PAL Video Disc Conversion

This unit can play NTSC and PAL formats discs. This DVD player can automatically convert either format to match your TV set. For example, if your TV set is a NTSC system TV and you're playing a PAL format disc, this DVD player will automatically convert the PAL format signal to NTSC format signal to play on your TV.

X1.5/X2X3 Video Zoom Support

The user selectable digital video zooms out zoom-in on a specific portion of a video image.

Multi-Speed Fast Forward/Reverse Scan

The digital fast forward/reverse scan is capable of scanning speeds of X2, X4, X6, and X8.

Multi-Speed Slow Motion Forward / Reverse Scan

This DVD player offers perfect slow motion scans in the following speeds: X1/2, X1/4, and X1/8.

Volume Control of Analog Audio Output

This DVD player can control the volume of analog audio output from remote control.

Auto Power Shut Down Function

This DVD player offers auto power shut down function. When the player is not in use for 20 minutes, the player will shut down automatically to save the power consumption and prolong the life of DVD player.

PACKAGE CONTENTS

Please verify that the following items are included within the DVD carton. If items are missing, please promptly return this unit to the retailer for an exchange.

DVD Player **x1**

Remote Control Unit **x1**

AAA Batteries **x2**

SCART Cable **x1**

Video & Audio (L/R) Cable **x1**

User Manual **x1**

PRECAUTIONS

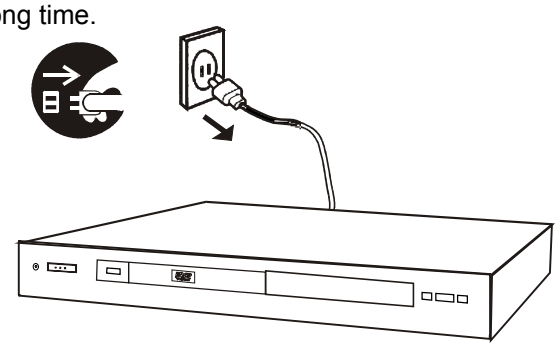
Please read the following carefully to get the best and safest performance from this DVD player

Power Supply

Make sure to use the correct power outlet as rated on the back of the DVD unit. (AC 100 – 240V)

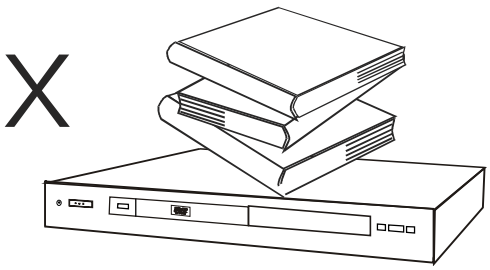
Power Cord

- ⇨ Do not put any heavy objects on top of the power cord to avoid fires or electrical shocks caused by cord damage.
- ⇨ Unplug the power cord if the unit will not be used for a long time.



Usage and Storage

- ⇨ Do not remove the top cover to avoid possible electric shock from touching the inside of this unit.
- ⇨ Do not place any heavy objects on top of this unit.

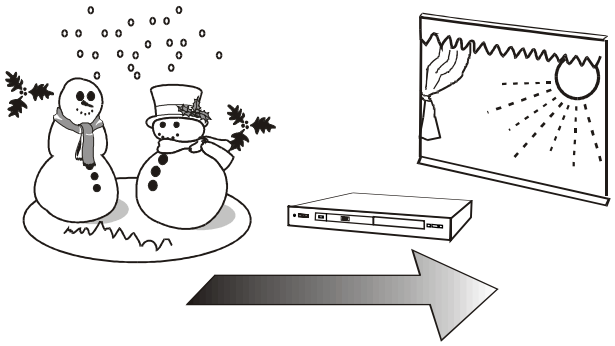


Unit Placement

- ⇨ **Do not** place this unit in locations with:
  - ✓ Vibrations
  - ✓ High humidity
  - ✓ Poor ventilation
  - ✓ Direct sunlight
  - ✓ Extremely high or low temperatures
- ⇨ This unit should be placed on a horizontal surface only.
- ⇨ Keep this unit away from television sets, radios, computers and loudspeakers to avoid magnetic field interference.

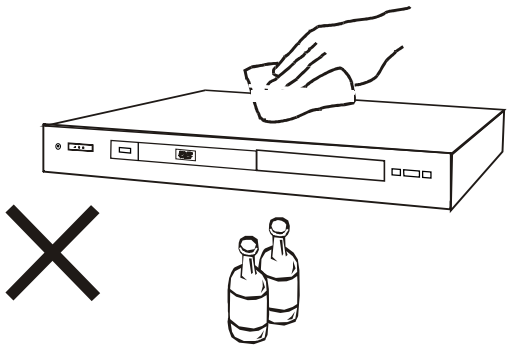
Condensation

Condensation may result from moving the unit from a cold place to a hot place. Please turn the power on for 1 to 2 hours before using this unit if condensation occurs.



Unit Cleaning

Clean the front panel and the body of the unit with a dry soft cloth. Other areas can be cleaned using a soft cloth moistened with a mild detergent. Do not clean with evaporative solutions to avoid possible damage to the unit.

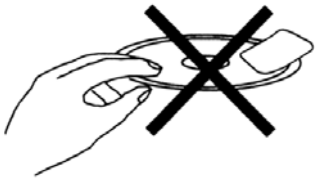


DISC CARE

Disc Usage

⇨ Please hold all discs by their edges or the center opening as shown below. Do not touch the shiny surface of the discs.

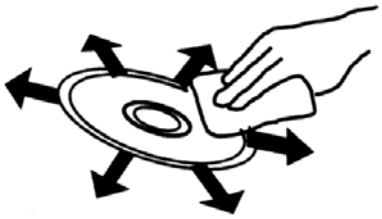
⇨ Do not stick labels or tape on the discs, and do not scratch or damage the discs.



⇨ The disc spins at a high speed during playback. Do not use damaged, cracked, or warped discs because they could damage the unit.

Disc Cleaning

⇨ Fingerprints or dirt on disc surfaces can weaken the light reflected from the disc and directly influence the signal quality. The poorer the signal quality, the poorer the playback performance. Keep the disc clean by wiping it straight out from the center with a dry soft cloth.



⇨ If the disc is very dirty, wipe with a moist soft cloth, then follow with a dry soft cloth.

⇨ Do not use record cleaning sprays, benzene, thinner, anti-static electricity liquids, or any other solvent. These may damage the disc surface.

Disc Storage

⇨ Please keep the discs in their original cases to avoid bending the discs. Do not keep discs in locations with high temperature, high humidity, or direct sunshine. These conditions may also cause damage to the discs.

⇨ Carefully read all instructions on the disc label.

DISC COMPATIBILITY CHART

This DVD player can play the following types of discs:

Disc-Typ	Format/Seite/Beschichtung	Max. Wiedergabedauer (Speicherkapazität)
DVD-Video	DVD	MPEG2-TYP
	12 cm (5'') /single sided/single layer 12 cm (5'') /single sided/double layer 12 cm (5'') /double sided/single layer 12 cm (5'') /double sided/double layer	133 Min. (4,7 GB) 242 Min. (8,5 GB) 266 Min. (9,4 GB) 484 Min. (17 GB)
	8 cm (3'') /single sided/single layer 8 cm (3'') /single sided/double layer 8 cm (3'') /double sided/single layer 8 cm (3'') /double sided/double layer	41 Min. 75 Min. 82 Min. 150 Min.
Video-CD	VCD	MPEG1- TYP
	12 cm (5'')/single sided/single layer	74 Min.
	8 cm (3'')/single sided/single layer	20 Min.
S -VCD	12 cm (5'')/single sided/single layer	74 Min.
	8 cm (3'')/single sided/single layer	20 Min.
Audio-CD	CD	CD
	12 cm (5'')/single sided/single layer	74 Min.
	8 cm (3'')/single sided/single layer	20 Min.
MP3	12cm (MP3:Digital Audio)	More than 8 hours

Notes:

- ⇨ DVD and VCD Discs contain both video and audio and can support multiple audio tracks.
- ⇨ CD: Discs have audio only.
- ⇨ Do not insert DVD-ROMs, CD-ROMs intended for computer use in this DVD player.
- ⇨ This unit complies with VCD ver. 1.1, ver. 2.0, and ver. 3.0.
- ⇨ This unit is compatible with CD-R & CD-RW.
- ⇨ The playback time of SVCD is approx. 37 minutes.

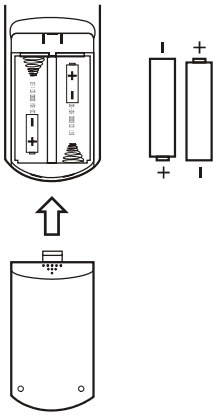
REMOTE CONTROL UNIT

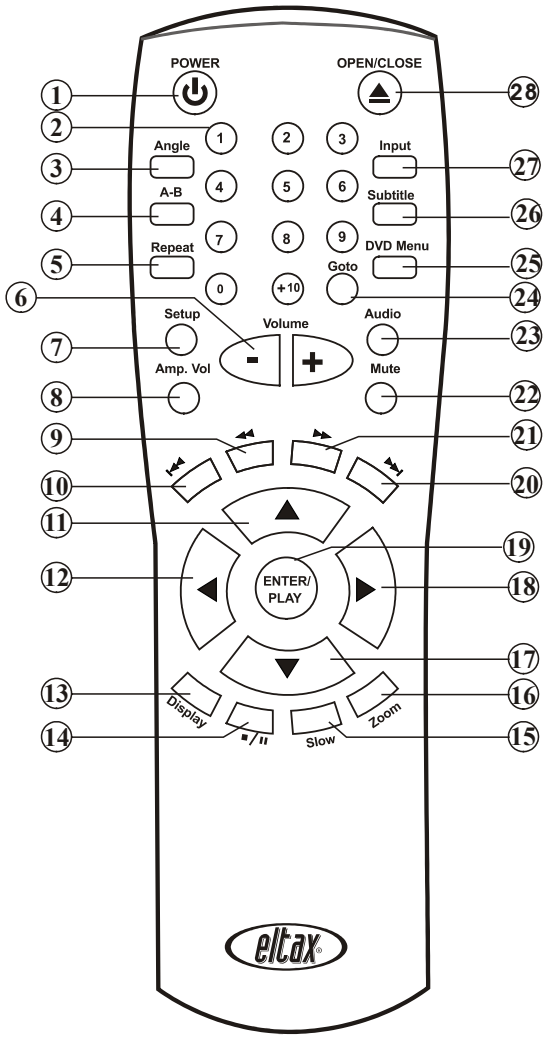
To use the remote control unit to operate the DVD player, insert two batteries (size AA) making sure that the + and – ends of the batteries are matched to the +/– marks printed inside the battery compartment. To use the remote controller, please point the remote control unit at the remote sensor on the DVD player.

Notes:

- Do not use different types of batteries together, or mix old and new batteries.
- .When the remote control unit does not function correctly or its operation range reduces, please replace both batteries at the same time.
- If the remote control unit will be not used for a long time, please remove the batteries to avoid possible damage from battery leakage or corrosion.
- Keep the remote controller away from extremely hot or humid locations.

Do not open the remote controller unit.





1. **POWER** Turns on/off the DVD player unit.
2. **Digits**

   Used for direct selection of menu choices, audio tracks, and other inputs such as time and password.
3. **ANGLE**

   If the DVD disc contains multiple view angles, this button will change the viewing angle displayed by the DVD player. Refer to p.25.
4. **A-B REPEAT**

   Displays A-B REPEAT playback. Refer to p.24.
5. **REPEAT**

   Shows repeat playback for one title, or all titles on the disc. Refer to p.24.
6. **Volume ⊖ / ⊕**

   Reduce / Increase the volume of analog audio output.
7. **SETUP**

   Customizes DVD player settings. Refer to p.13.
8. Amp.Vol

   No function on this unit.
9. **◀◀ REV**

   Fast reverse scans during playback. Refer to p.22.
10. **I◀◀ PREV**

    Goes back to the previous chapter during play. Refer to p.21.
11. ▲

    Used for navigation within a selection menu.
12. ◀

    Used for navigation within a selection menu.
13. **DISPLAY**

    On-Screen display of the DVD player's operational status. Refer to p.20.
14. **■ / II**

    Pause the playback once pressed, to pre-stop after being pressed twice and to stop the playback completely by pressing thrice. Refer to p.21.
15. **SLOW**

    Engages slow-motion forward/reverse playback. Refer to p.22.
16. **ZOOM**

    Enters the zoom mode during playback.
17. ▼

    Used for navigation within a selection menu.
18. ▶

    Used for navigation within a selection menu.
19. **ENT/PLAY**

    Confirms selection of an item in the menu or starts playing the disc.
20. **NEXT ▶▶I**

    Skips to the next chapter during playback. Refer to p.21.
21. **FWD ▶▶**

    Fast forward scan during playback. Refer to p.22.
22. **MUTE**

    To mute the sound of playback.
23. **AUDIO**

    During playback of a DVD disc with more than one audio language, this button changes the audio language played. Refer to p.26.
24. **GOTO**

    Enables search mode by title/chapter and time. Refer to p.26.
25. **DVD MENU**

    Some DVDs have complex submenus. This button allows access to these submenus. Refer to p.25. And also the button turns off/on the Playback Control function during SVCD or VCD playback. Refer to p.27.
26. **SUBTITLE**

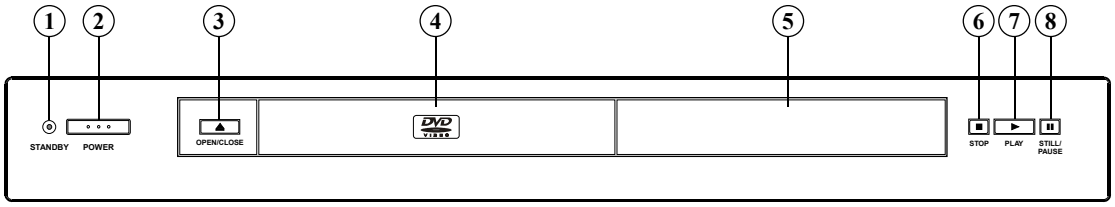
    During playback of DVD discs with more than one subtitle language, this button toggles between available subtitle languages. Refer to p.26.
27. **INPUT**

    No function on this unit.
28. **OPEN/CLOSE**

    Opens or closes disc tray.

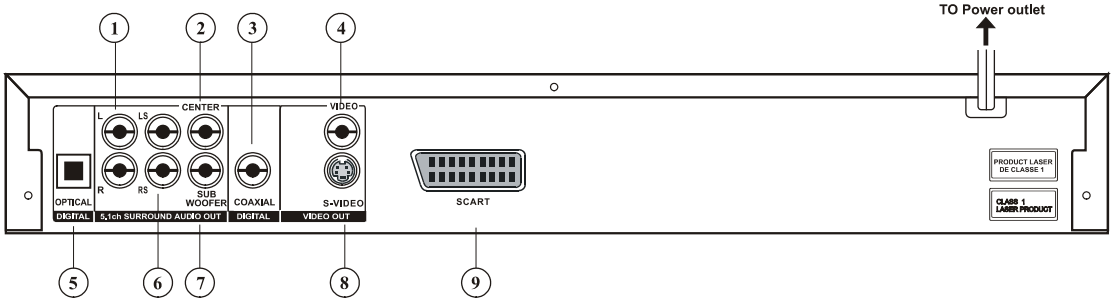
FRONT PANEL/DISPLAY WINDOW

Front Panel



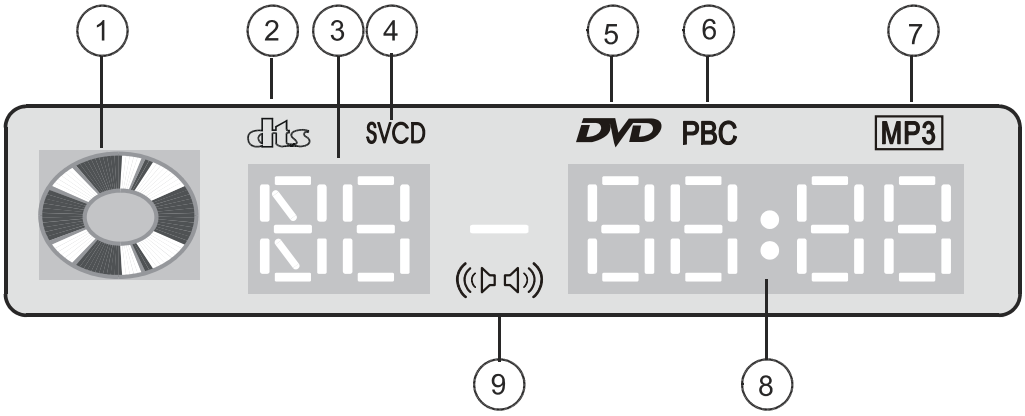
1. **Standby Indicator**
   Lights up in standby mode when the unit is turned off.
2. **POWER Switch**
   Turns the unit's power on and off.
3. **OPEN/CLOSE Button**
   Opens or closes the disc tray.
4. **Disc Tray**
   To place DVD, VCD, CD, and MP3 discs on.
5. **VFD Display Window**
   Displays operation information.
6. **STOP Button**
   Stops playback.
7. **PLAY Button**
   Plays the inserted disc.
8. **STILL/PAUSE Button**
   Pauses the playback

Rear Panel



1. **L/R Front Mixed Audio Output Jacks**
2. **Center Audio Output Jack**
3. **Coaxial Digital Audio Output**
4. **Composite Video Jack**
5. **OPTICAL Output**
6. **L/R Surround Audio Output Jacks**
7. **SUB WOOFER Output**
8. **S-Video Output Jack**
9. **SCART Out**

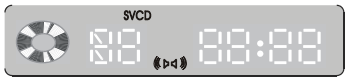
Display Window



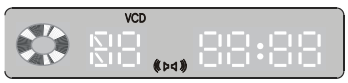
1. **Disc inside indicator**
2. **DTS® Digital Audio Indicator** (See Fig. 1 below)
   Indicates the disc played contains DTS® Digital audio encoding.
3. **Title/Track Number Indicator**
   Some DVDs contain multiple title pages. This indicator displays the title number currently in use or track number (CD) currently playing.
4. **SVCD/CD/VCD Indicator** (See Fig. 2- 4 below)
   Identifies the inserted disc as audio SVCD and CD or Video CD.
5. **Dolby® Digital Audio Indicator (See Fig. 5 below) Indicates the disc played contains Dolby® Digital audio encoding.**
6. **DVD Indicator** (See Fig. 5 below)
   Identifies the inserted disc as a DVD disc.
7. **PBC Indicator for VCD Disc** (See Fig. 6 below)
   Playback Control indicator.
8. **MP3 Indicator** (See Fig. 7 below)
   Identifies the inserted disc as a MP3 disc.
9. **Analog Audio Output Indicator**
   Indicates the audio sound output from analog audio jacks.
10. **Elapsed Playback Time/Remaining Playback Time Indicator**
    Displays elapsed playback time and playback remainder time..

(1)

(2)



(3)



(4)

(5)

(6)

(7)

DVD TITLE is being read.

The disc tray is open.

The disc tray is being closed.

The system is loading information from the disc.

No disc is loaded.

Bad disc or Wrong region disc is being loaded.

REAR PANEL AND CONNECTIONS

Video Output Terminals and Connections

Composite Video Output Terminal

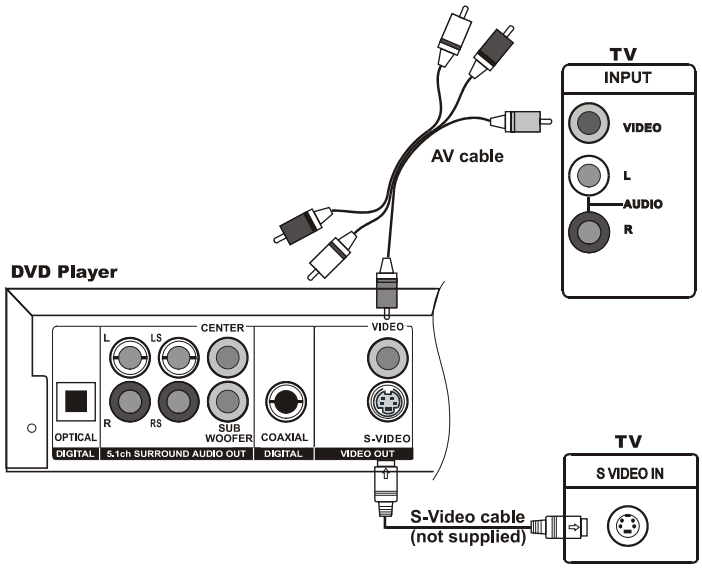
Composite video output is the most commonly used video connection in use today and is supported by most televisions and A/V receivers. Composite video is set to display without user setup.

S-Video Output Terminal

You will want to use S-video output with televisions or monitors equipped with an S-video input whenever component video inputs are not available. To activate the S-video output, you must set the DVD player's "TV SETUP PAGE"/ "TV OUTPUT" setting to S-VIDEO (Refer to p.13).

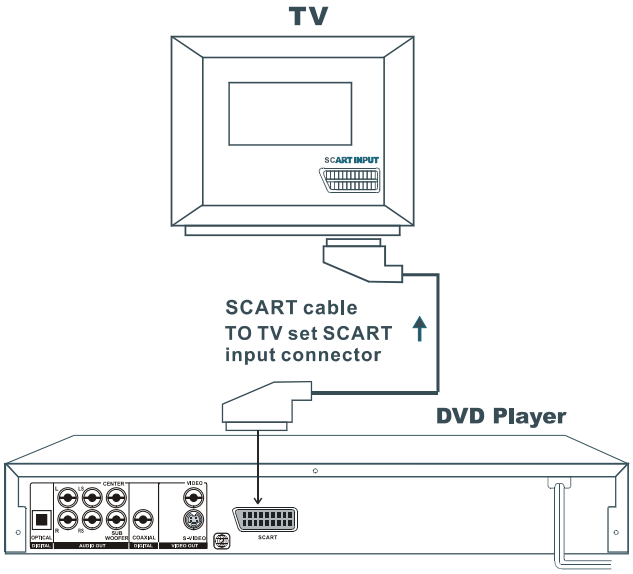
NOTE:

ⓘ S-video cable is not included with this player.



SCART Terminal

The SCART terminal can be connected to the TV set equipped with SCART connectors. The audio transmitted on the SCART is stereo sound. Whenever the SCART terminal is used, you must set the DVD player's "TV SETUP PAGE"/ "TV OUTPUT" setting to "SCART" (Refer to p.13).



NOTE:

ⓘ For selected TVs, when the TV set is at standby mode, power on the DVD player will automatically power on the TV and switch to the SCART video input channel.

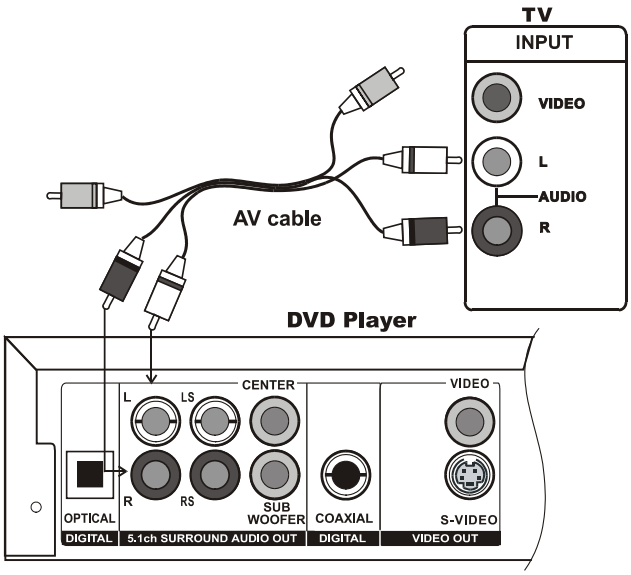
WARNING:

1. **S-Video and SCART video jacks cannot output signals simultaneously.**
2. **When DVD player is in POWER OFF status, the LOOP THROUGH function does not work.**

Audio Output Terminals and Connections

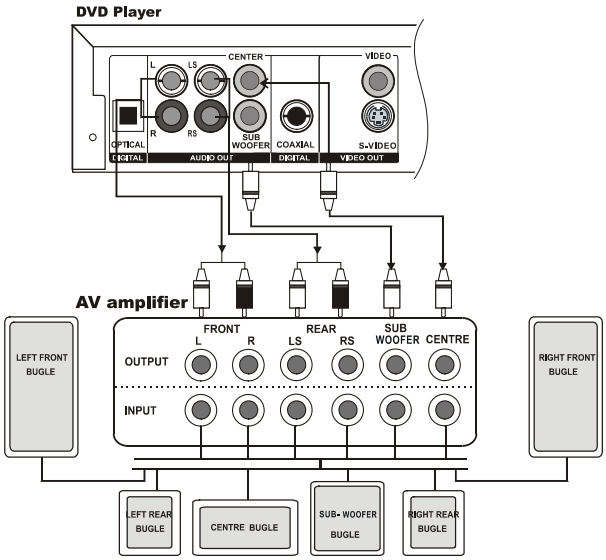
Down-Mixed Audio Output Terminals (L/R)

Use down-mixed (stereo) audio output terminals for connection with your television or other non-Dolby® Digital A/V receivers or amplifiers. These terminals provide down-mixed Dolby® Digital audio signals for standard 2-channel playback.



5.1ch Audio Output Terminals

Use 5,1ch audio output terminals for connection with your 5.1ch A/V receiver or amplifier.

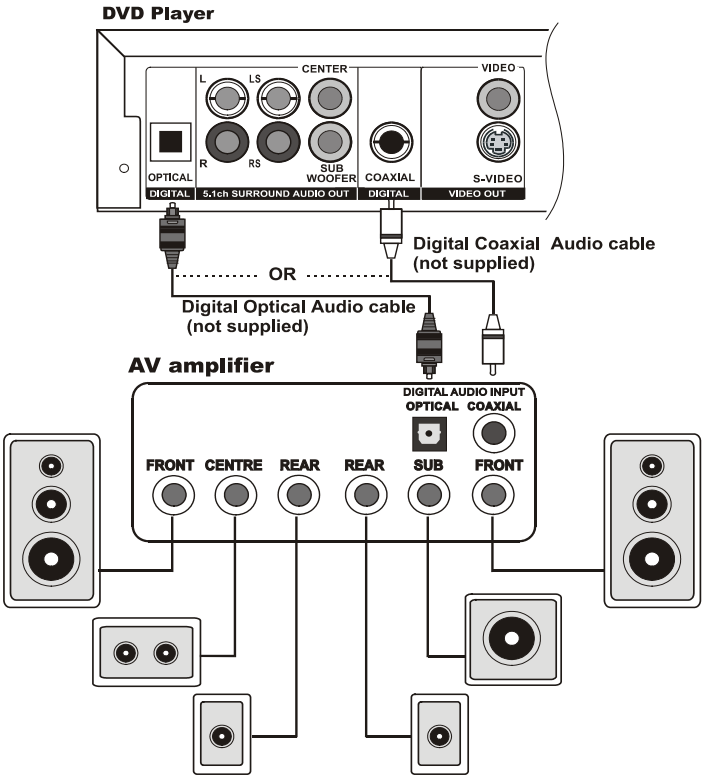


Coaxial and Optical Digital Audio Output Terminals

Use digital audio outputs for connection with an external Dolby® Digital or DTS® decoder. To use the coaxial or Optical output, you will need to purchase a coaxial or an Optical cable for connection with the Coaxial or Optical Input Terminal of an AV amplifier. (Digital cable is not included with this player.)

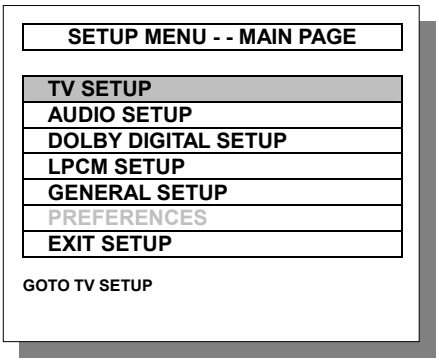
Note when connecting the Optical digital cable (optional):

- Remove the dust protection cap from the connector and connect the cable firmly so that the configurations of both cable and connector match.
- Keep the dust protection cap and always re-attach the cap when not using the connector to protect against dust.



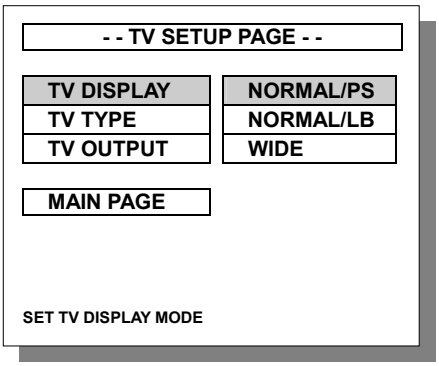
INITIAL SETTING

Press the SETUP button on the remote controller to set up the initial setting. The On-Screen Display (OSD) will display below:



TV SETUP

There are three available items: They are TV DISPLAY, TV TYPE, and TV OUTPUT.



TV DISPLAY

⇨ NORMAL/PS

4:3 Pan & Scan video output for a normal TV set

⇨ NORMAL/LB

4:3 Letterbox video output for a normal TV set

⇨ WIDE

16:9 Wide Screen video output for a wide screen TV set

NOTES:

ⓘ Aspect ratios available for playback will be printed on the DVD rear packaging.

ⓘ Some DVDs are recorded in the Cinema Wide format (16:9 aspect ratio), and some are recorded in the standard format (4:3 aspect ratio). Some DVD discs are recorded in both formats and may have the Pan Scan feature available. The Pan Scan feature if available will fill the entire screen in 4:3 TV screen. However, it will cut some of the picture off at the two sides.

TV TYPE

⇨ MULTI

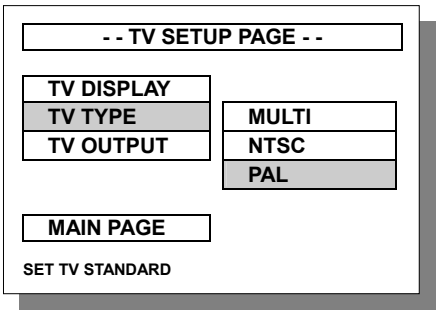
The DVD player will choose the correct system to display the playback of inserted disc.

⇨ NTSC

The DVD player will output in NTSC format regardless of what format the disc was designed for.

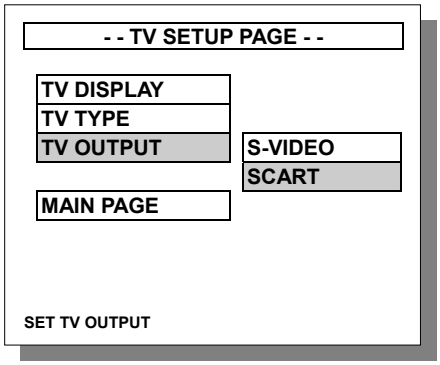
⇨ PAL

The DVD player will output in PAL format regardless of what format the disc was designed for.



TV OUTPUT (in stop mode)

The TV OUTPUT has two kinds of output ways; they are S-VIDEO and SCART terminal. If you are using S-video output, please set this setting to “S-VIDEO”. If you are using SCART output set to “SCART”, which matches with your TV’s SCART input.



NOTES:

ⓘ SCART video output and S-Video output cannot be used simultaneously.

ⓘ Press ■ / II key on the Remote Control to pause the playback, to pre-stop it, press twice and to stop the playback completely by pressing thrice.

AUDIO SETUP (5.1Ch model)

There are eight available settings:

AUDIO OUT

You can choose to send the player's audio signals to an external receiver using the following outputs:

⇨ ANALOG:

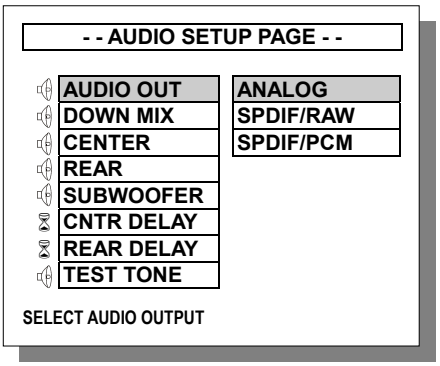
Audio signals are sent using stereo (L/R) audio terminals. Selecting this choice will disable the digital audio outputs.

⇨ SPDIF/RAW:

Set to this selection will output the raw bit stream signal of Dolby® Digital or DTS from the coaxial jack. In order to enjoy Dolby® Digital DTS discs, this unit's digital output jack must be connected to the digital-input jack of a Dolby® Digital or DTS compatible receiver or processor.

⇨ SPDIF/PCM:

PCM stands for Pulse Code Modulation and is digital audio. Connecting this unit to an amplifier with a built-in D/A converter can play the same digital audio format as on CDs. Additionally, 2-channel analogue audio will output from the audio output jacks of amplifier.



NOTES:

ⓘ Analogue and digital audio signals cannot output simultaneously.

ⓘ This player has a conversion function for converting Dolby® Digital and MPEG audio into the LPCM format. This allows playback of CDs with the regular playback system without the need for a special converter.

DOWN MIX

⇨ LT/RT

Please connect to a built-in Dolby Pro Logic receiver or amplifier to enjoy the Dolby Pro-Logic surround sound.

⇨ STEREO

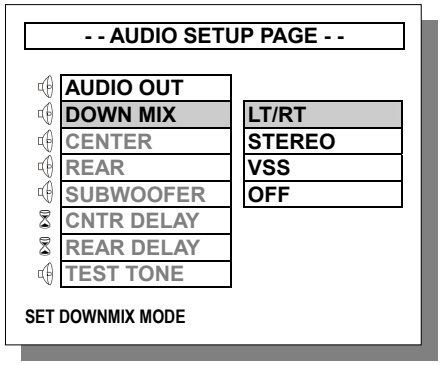
Down mixed Stereo L/R audio output.

⇨ VSS

Virtual Surround Sound audio output.

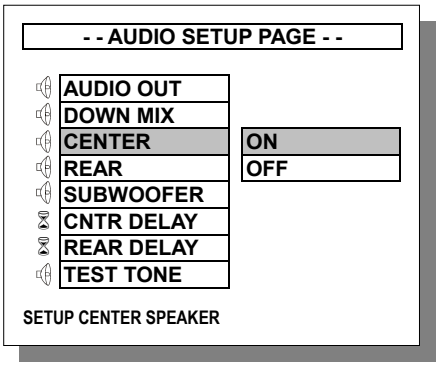
⇨ OFF

Turn off the DOWN MIX function to enable the 5.1ch setting items.



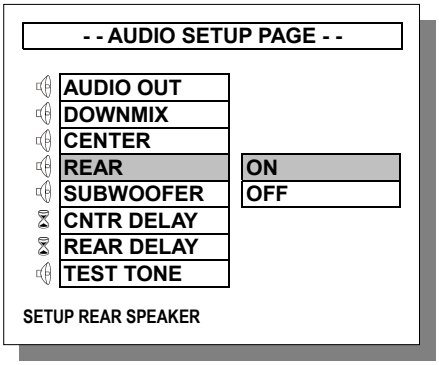
CENTER

Set the CENTER output ON/OFF.



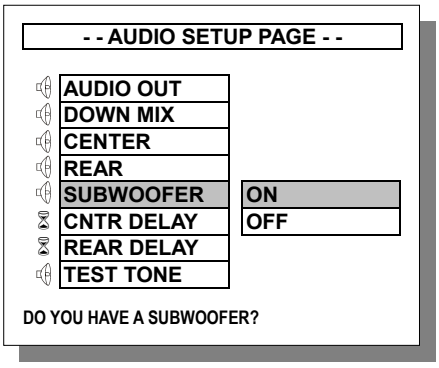
REAR

Set the REAR output ON/OFF.



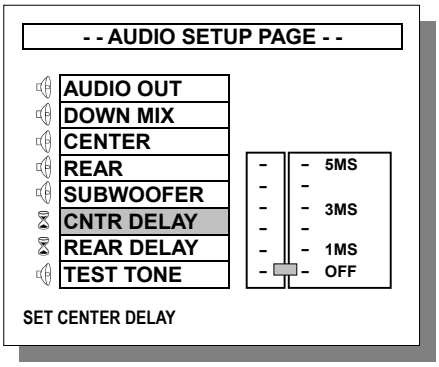
SUBWOOFER

Set the SUBWOOFER output ON/OFF.



CNTR DELAY

Adjust the delay time of CENTER output.

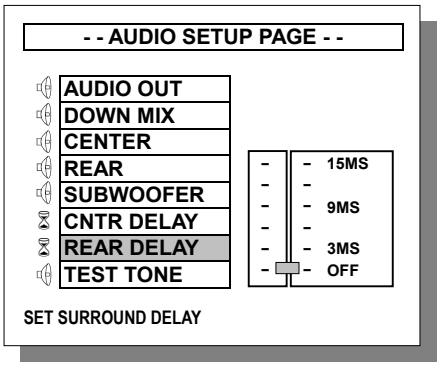


Note:

ⓘ Please set the “CENTER” item to ON first.

REAR DELAY

Adjust the delay time of REAR output.

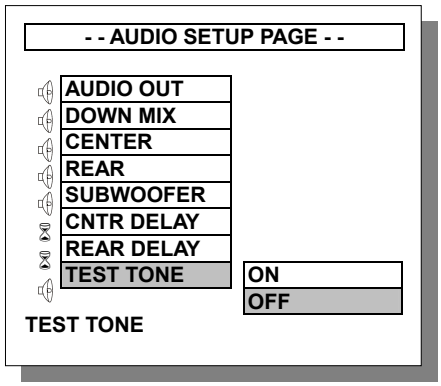


Note:

ⓘ Please set the “REAR” item to ON first.

TEST TONE

Test the output ability of left, center, right, right surround, and left surround speakers in sequence.



Note:

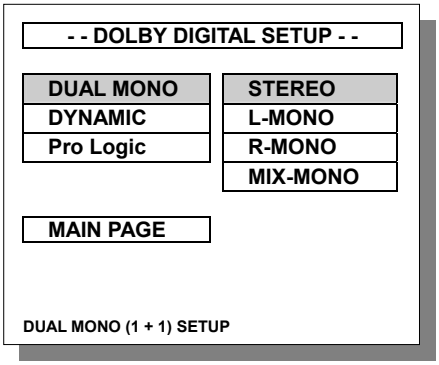
ⓘ Please set the “DOWN MIX” item to OFF first.

DOLBY DIGITAL SETUP

There are two available items: They are DUAL MONO and “DYNAMIC”.

DUAL MONO

There are four available modes: STEREO, L-MONO, R-MONO, and MIX-MONO.

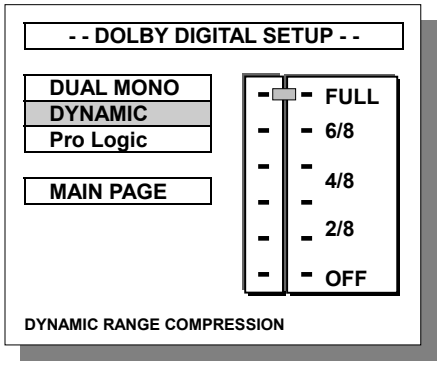


Audio output description

MODE	LEFT SPEAKER	RIGHT SPEAKER
STERO	STEREO -L	STEREO -R
L-MONO	L-MONO	L-MONO
R-MONO	R-MONO	R-MONO
MIX-MONO	L-MONO+R-MONO	L-MONO+R-MONO

DYNAMIC

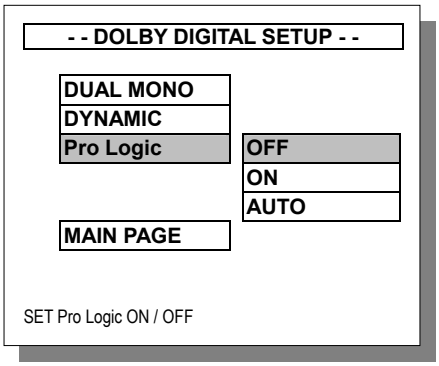
“Dynamic Range” is the difference between the maximum level and the minimum level of sounds. Sounds on a movie originally designed for movie theaters feature a very wide dynamic range, so sometimes it is not suitable for home use. Depending on the condition of your listening environment, Dynamic Range function can reduce the instant sound effect alteration of the movie while playing back. When seeing movies in the night, turn this function on to avoid the suddenly loud sound to influence your neighbors. (Default value is FULL, no compression to be done.)



NOTES:

- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on the DVD discs.

Pro Logic



NOTES:

- This function works only during playback of Pro Logic effect recorded discs.

LINEAR PCM SETUP

This option sets the audio output format sent using the unit's coaxial digital audio output.

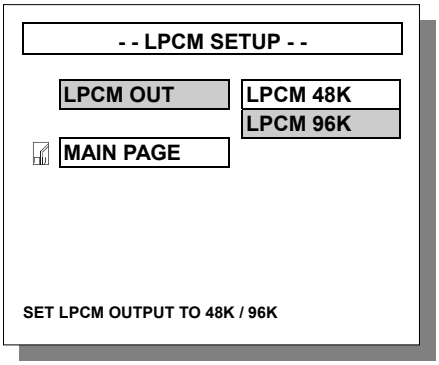
Linear PCM OUT

☞ LPCM 48K

In the Linear PCM setting, "48K" means "the digital audio output maximum sampling rate is 48KHz"; therefore, when the title's encoding sampling rate* is 96KHz, the output will be forced converted to 48KHz.

☞ LPCM 96K

If "96K" is selected, then the maximum output sampling rate is 96KHz and no conversion will take place.



DISC CODING AND OUTPUT FORMAT

Disc	Audio encoding format	Digital output format
DVD	Dolby® Digital	Dolby® Digital Bit stream (1~5.1 ch) or 48kHz/16bits 2ch Linear PCM
	DTS®	Bit stream (1~5.1 ch) or OFF
	Linear PCM (48/96kHz, 24bits)	Linear PCM (48KHz/16 bits up to 96kHz/24bits)
	MPEG	PCM (2ch) (48KHz/16 bit) or MPEG audio bit stream (1-7.1 ch)
Video CD	MPEG I	Linear PCM (44.1KHz sampling)
Audio CD	Linear PCM	Linear PCM (44.1kHz/16bit)

NOTES:

ⓘ Sampling rate:

When a sound wave is converted to a digital signal, the sound is sampled and converted to data at a specific frequency rate. For example, a signal with a 96 kHz sampling rate indicates that in one second, the analog signal was sampled 96000 times to produce the digital signal.

ⓘ In LPCM set-up menu, there will be a case that even when "LPCM 96K" is selected, output signal is converted to 48KHz if the disc has the copy guard management system in it.

GENERAL SETUP

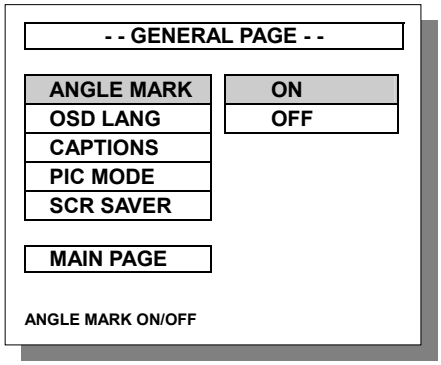
There are four available selections: ANGLE MARK, OSD LANG, CAPTIONS, and SCR SAVER.

ANGLE MARK

During playback of a title with multiple angle sections, the message " " will appear on the upper corner of the screen.

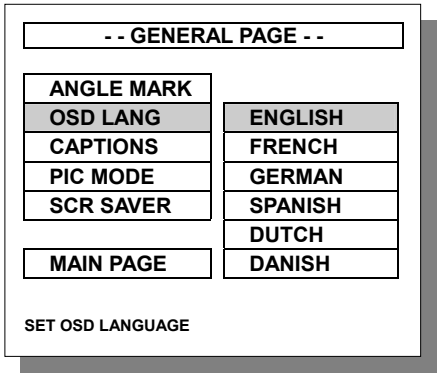
⇨ When ANGLE MARK is set to "ON", the angle mark OSD will stay on the screen until the end of the playback title or chapter.

⇨ When ANGLE MARK is set to "OFF", the angle mark OSD will stay on the screen for 3 sec and then disappear.



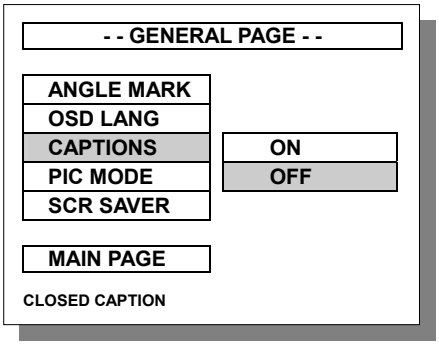
OSD LANGUAGE

You can select the language for the setup menu or the operation message display. There are four available OSD languages: ENGLISH, FRENCH, SPANISH and CHINESE for display. Default setting is "English".

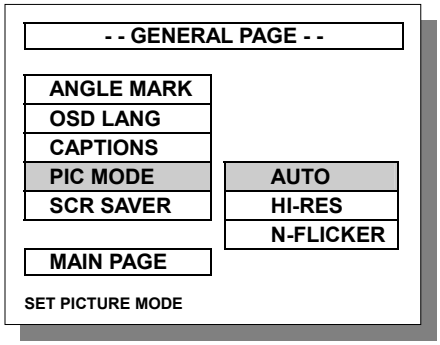


CAPTIONS

Closed Captions (CC) are a standardized method of encoding text into an NTSC television signal. A TV can display the text with a built-in decoder. Closed Captions can be carried on DVD. If a DVD title contains a **CC** mark on the rear of the box, then you can set Captions to “ON” and read written captions on the TV screen. Default is set to “OFF”.

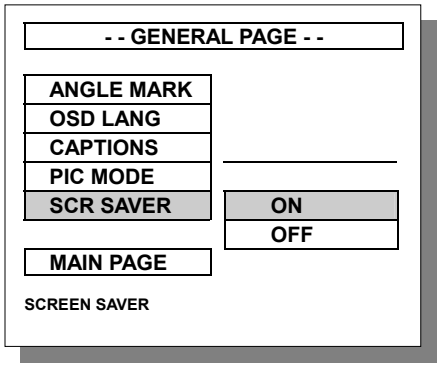


PIC MODE



SCREEN SAVER

When this DVD player is idle (after about 5 minutes of inactivity), the screen saver can be activated to prolong the TV monitor’s life.



NOTES:

ⓘ Caution: The DVD player can hold a still video image or OSD image on your television screen indefinitely. If you leave the still video image or OSD image displayed on your TV for a very long time. It may cause the permanent damage to your TV screen.

PREFERENCES

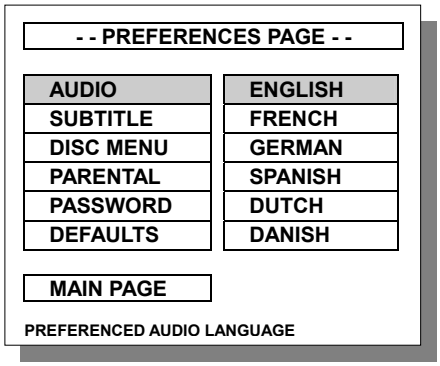
Preferences allow you to set the default AUDIO, SUBTITLE, DISC MENU, PARENTAL, PASSWORD, and factory DEFAULTS of this player. This setting is only available when the DVD player is in the STOP mode by pressing the ■ / II button thrice.

NOTES

ⓘ Pressing the ■ / II button once only pause the playback, to pre-stop it after pressing ■ / II twice and to stop the playback completely by pressing ■ / II thrice.

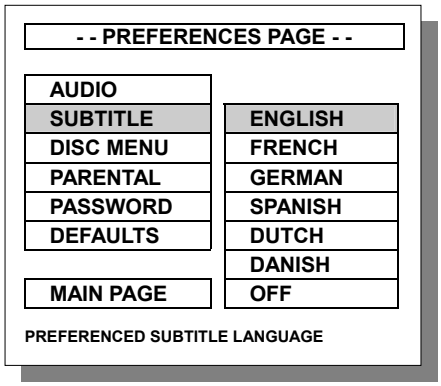
AUDIO

This unit supports five audio selections, as shown below, for your preferred audio setting.



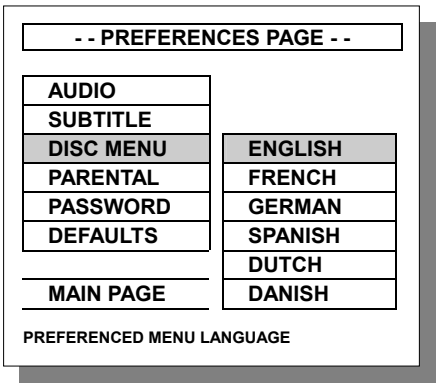
SUBTITLE

This unit supports five subtitle selections, as shown below, for your preferred default subtitle setting. When “OFF” is selected, there will be no subtitle is displayed during playback.



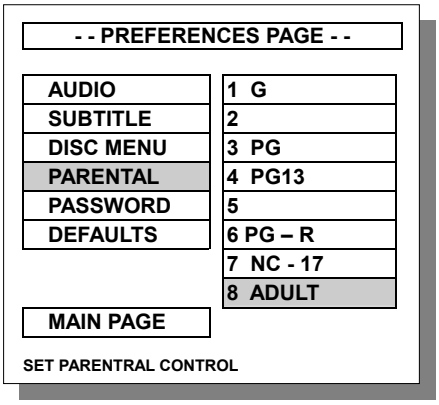
DISC MENU

This unit supports five DISC MENU languages.

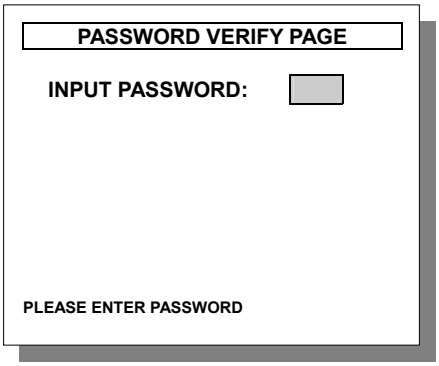


PARENTAL

Functions to limit the playback of some discs that contain mature scenes. The limitation varies from disc to disc; when it is activated, playback is completely prohibited. There are eight levels of parental setting of this unit.



When you want to change the parental rating level, you will be asked to enter a password.

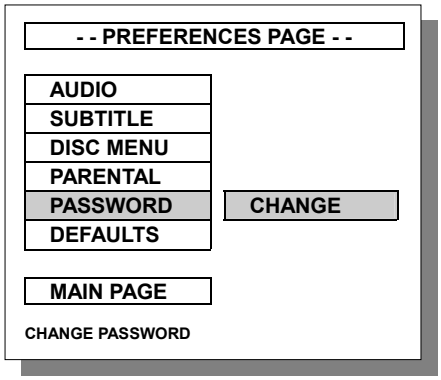


NOTES:

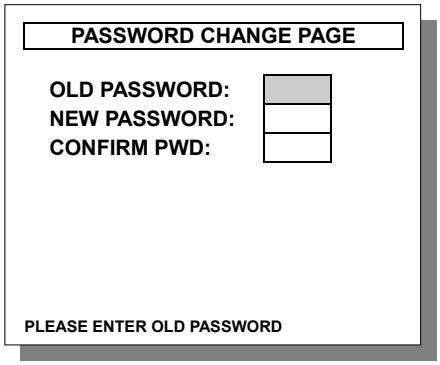
ⓘ Use “3308” to override the forgotten password.

PASSWORD

The password is a 4-digit number. When you want to change the password, select “CHANGE” as shown below.



You will be asked to enter the old password, then enter the new password, and confirm it.

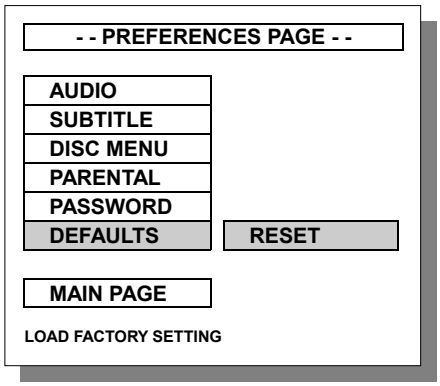


NOTES:

⇨ The default password number is”3308”.

DEFAULTS

When you select “RESET”, all the initial settings will be restored to the default setting.



ON-SCREEN DISPLAY (OSD)

DVD OSD Modes

There are two OSD display modes available when playing a DVD disc.

Mode 1

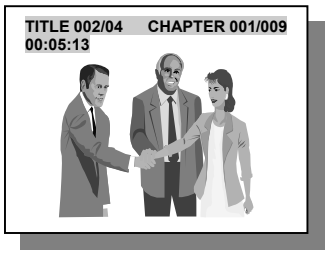
Shows the status of the pressed button and some special messages are displayed on the screen. For example, when the **OPEN/CLOSE** button is pressed, the OSD shows:

Mode 2

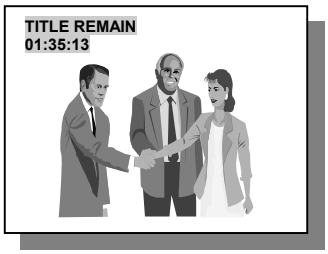
Shows the playback information of a movie or title.

⇨ When pressing the **DISPLAY** button on R/C, the information OSD will display on the screen in the sequence as shown below:

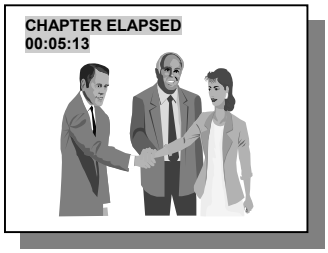
First time



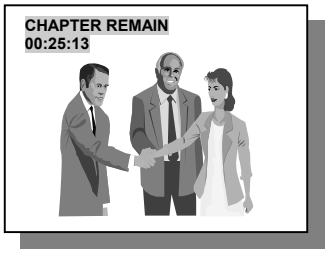
Second time



Third time



Fourth time



☞ When pressing the **DISPLAY** button on the remote control again, it will turn off the OSD.

Audio CD / VCD OSD Modes

There are two OSD display modes available when playing a VCD, and Audio CD disc.

Mode 1

Shows the status of the pressed button and some special messages are displayed on the screen as previous description.

Mode 2

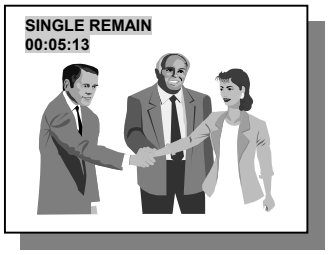
Shows the playback time information of a disc.

PBC ON (VCD 2.0 above only):

☞ When pressing the **DISPLAY** button on R/C, the information OSD will display on the screen in the sequence as shown below:

1. SINGLE ELAPSED

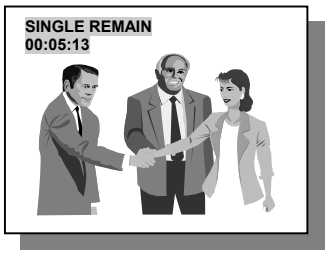
2. SINGLE REMAIN



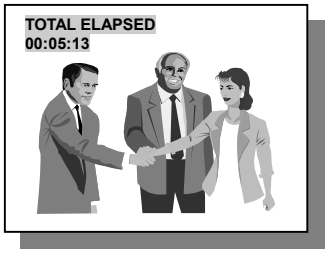
PBC OFF or Audio CD playback:

1. SINGLE ELAPSED

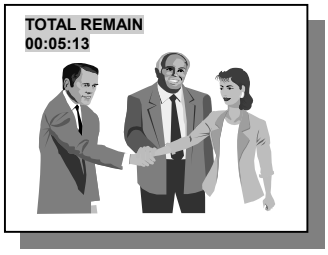
2. SINGLE REMAIN



3. TOTAL ELAPSED



4. TOTAL REMAIN



☞ When pressing the **DISPLAY** button on the remote control again, it will turn off the OSD.

BASIC OPERATION OF PLAYBACK

Preparation:

☞ If a television set is used, turn on its power and select the appropriate input AV, S-Video or SCART. If the SCART connection is used then the TV will switch to the correct input when the DVD player is turned on.

☞ If a sound system is used, turn on the amplifier first and make sure its outputs are set properly.

START Playback

1. Turn on the DVD player.
2. Press the OPEN/CLOSE button to open the disc tray.
3. Place a disc onto the tray and make sure that it is placed squarely on the tray.
4. Press the OPEN/CLOSE or ENT/PLAY button to play the disc.

NOTES:

ⓘ When using a DVD disc, some menu selections and some DVD playback functions are available during playback.

ⓘ When using a VCD disc with PBC, the PBC menu will be displayed on the screen. You can use the PBC menu, or press the PBC button to set PBC off and the disc will play immediately.

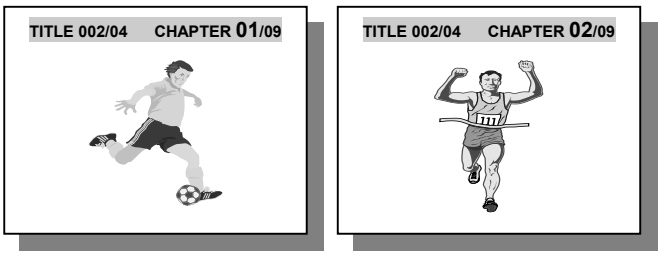
ⓘ For a VCD disc without PBC or an Audio CD, the disc will be played immediately.

SKIP Playback

DVD Playback

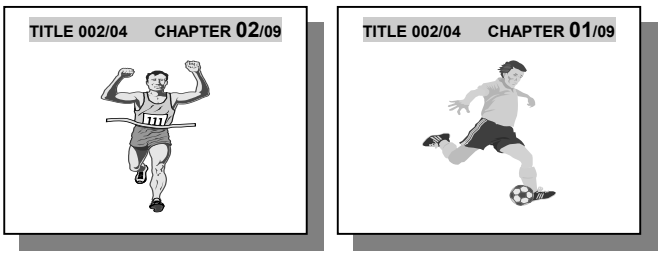
☞ Press the NEXT ▶▶| button to skip to the next chapter.

Before press NEXT ▶▶| button **After press NEXT ▶▶| button**



☞ Press the |◀◀ PREV button to skip to the beginning of the current chapter or previous chapter.

Before press |◀◀ PREV button **After press |◀◀ PREV button**

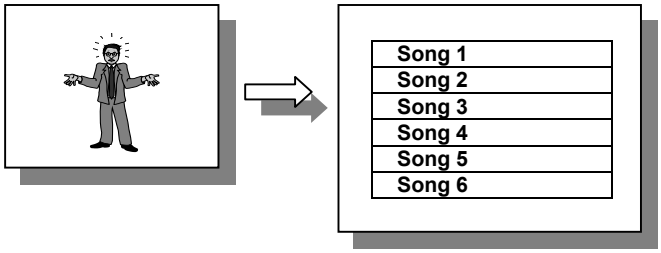


VCD/Audio CD Playback

☞ PBC ON (VCD 2.0 above only):

Press the NEXT ▶▶| or |◀◀ PREV button will go back to the PBC menu.

PLAYING **VCD PBC MENU**

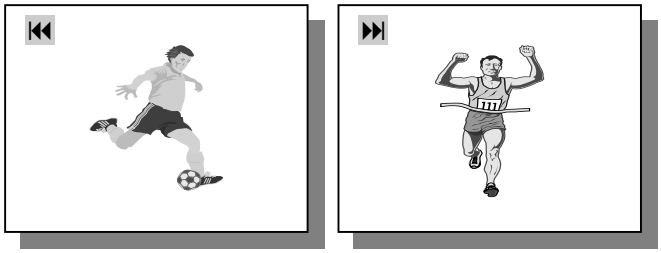


Note:

ⓘ There will be a case that playback stops when NEXT ▶▶| or |◀◀ PREV is pressed.

☞ PBC OFF or Audio CD

Press the NEXT ▶▶| or |◀◀ PREV button will skip to the next or previous track of VCD or Audio CD.



Note:

ⓘ PBC: Play Back Control. See page 29.

This function is only available for Video-CD version 2.0 or higher. The PBC operation may differ by disc, therefore, refer to the instructions for each disc.

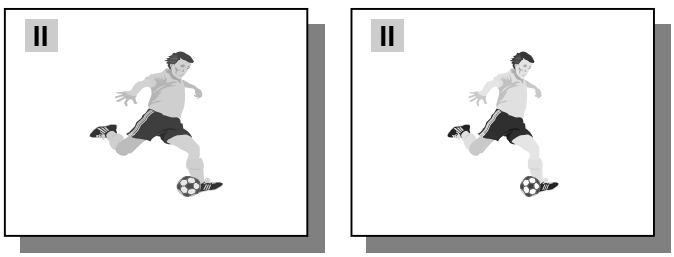
STILL/PAUSE Playback

Step playback is available while playing discs other than Audio CD. It provides a frame-by-frame still picture image.

☞ Press the ■ / II button to freeze the image.

☞ Press the ENT/PLAY button to return to normal play.

Frame 1 **Frame 2**

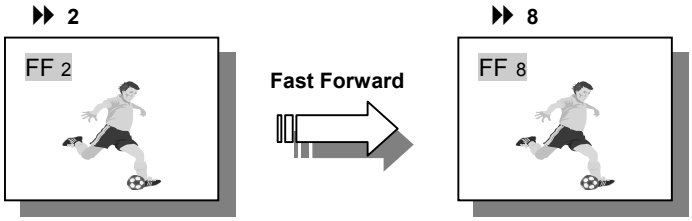


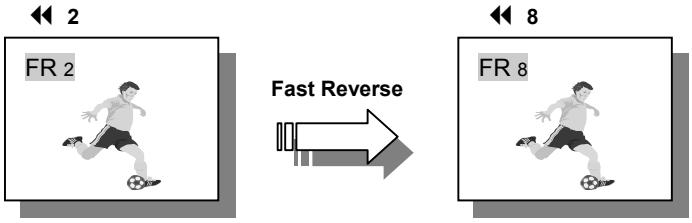
FAST FORWARD/REVERSE SCAN

Using the FWD ▶▶ and ◀◀ REV buttons to fast forward and reverse scan.

DVD Playback

☞ When the FWD ▶▶ or ◀◀ REV button is pressed, the speed of playback changes in cycles of 2→ 4→ 6→ 8→ Play→ 2

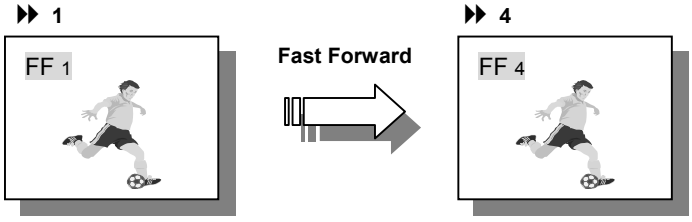




☞ When the ENT/PLAY button is pressed during fast forward/reverse scan, normal playback will be resumed.

VCD/Audio CD Playback

☞ When the FWD ▶▶ or ◀◀ REV button is pressed, the speed of playback changes in cycles of 1→ 2→ 3→ 4→ Play→ 1.



☞ When the ENT/PLAY button is pressed during fast forward/reverse scan, normal playback will be resumed.

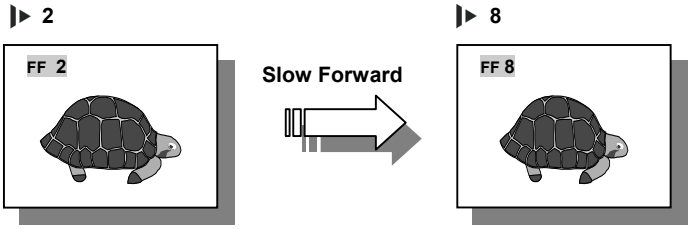
NOTES:

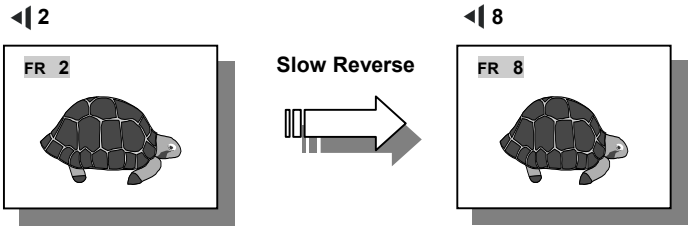
- ⓘ It is normal that video image may seem discontinuous during fast forward/reverse scan.
- ⓘ When the fast forward scan reaches the end of a track (Audio CD/VCD) or a title (DVD), normal playback of the next track/title will be resumed.
- ⓘ When the fast reverse scan reaches the beginning of a track (Audio CD/VCD) or a title (DVD), the normal playback of the track/title will be resumed.

SLOW-MOTION Playback

DVD Playback

☞ When the SLOW button is pressed, the speed of playback changes in cycles of slow forward ▶| 2→ ▶| 4→ ▶| 8 and then slow reverse |◀ 2→ |◀ 4→ |◀ 8.

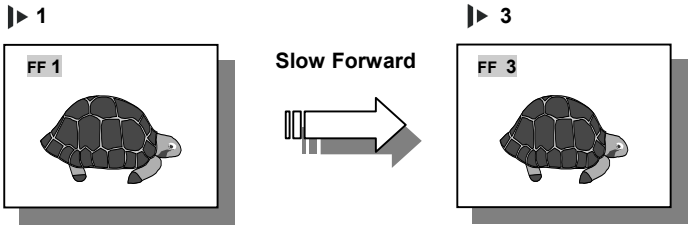




☞ When the ENT/PLAY button is pressed during slow forward/reverse scan, normal playback will be resumed.

VCD/Audio CD Playback

☞ When the SLOW button is pressed, the speed of playback changes in cycles of slow forward ▶| 1→ ▶| 2→ ▶| 3 → PLAY→ ▶| 1.



☞ When the ENT/PLAY button is pressed during slow forward/reverse scan, normal playback will be resumed.

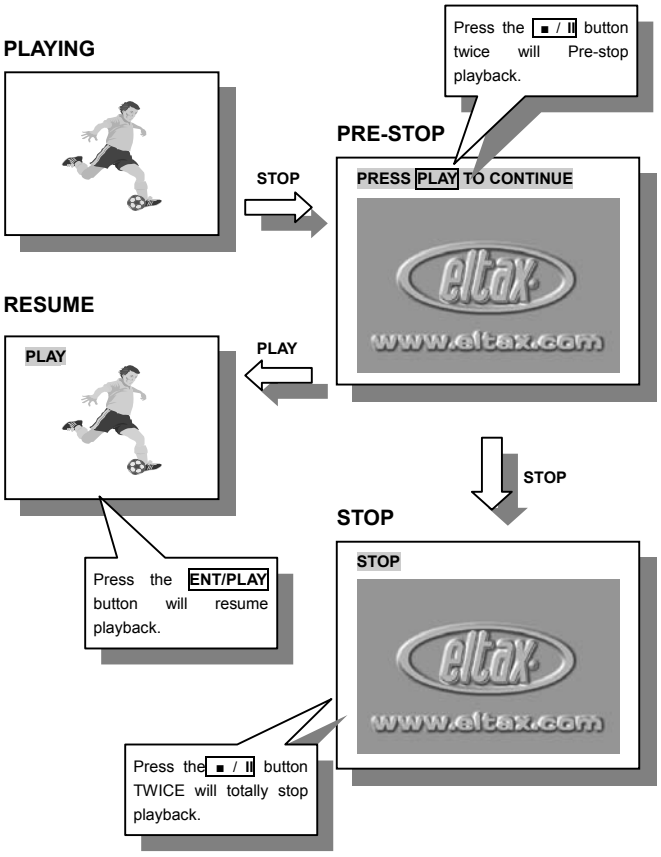
NOTES:

- ⓘ During slow-motion play, you will not be able to hear the audio portion of the track.

STOP Playback

DVD Playback

Pressing the ■ / II button twice only pre-stop the playback. You must press the ■ / II button thrice to totally stop the playback.



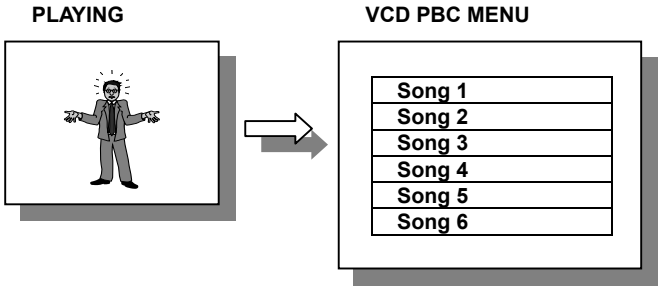
NOTES

ⓘ When the unit is not in use, please remove the disc and press the POWER button to turn off DVD player.

VCD/Audio CD Playback

☞ PBC ON (VCD 2.0 above only):

Press ■/II button will go back to PBC (main page) Menu.



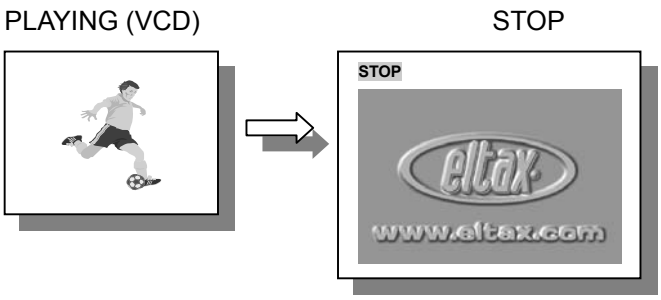
Note:

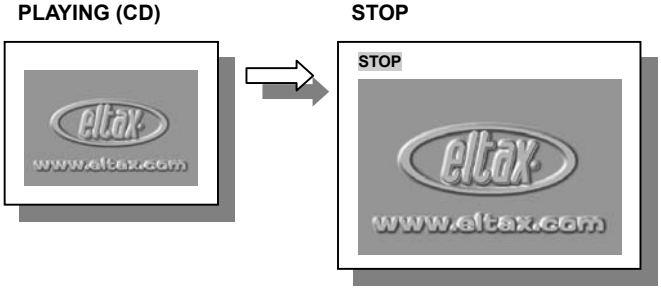
ⓘ Some function keys will be differed from its original definition even cease to function in some discs. The main cause is those specific discs were already contained its operation function in process of manufacturing. In this case, to operate the function key, please follow on-screen indication for operation. The particular feature only exists in those specific discs; it will not further affect DVD player's normal operation.

ⓘ When PBC mode is ON, even when ■ / II button is pressed some discs will not go back to PBC Menu and " " is shown on the screen.

☞ PBC OFF or Audio CD

Press ■ / II button will stop playback during PBC off or Audio CD playback.





REPEATED Playback

TITLE/CHAPTER Repeat

When the REPEAT button is pressed, the repeated playback is triggered and the OSD message is changed in cycles of “CHAPTER REPEAT ON”, “TITLE REPEAT ON”, and “REPEAT OFF.”

☞ **CHAPTER REPEAT**

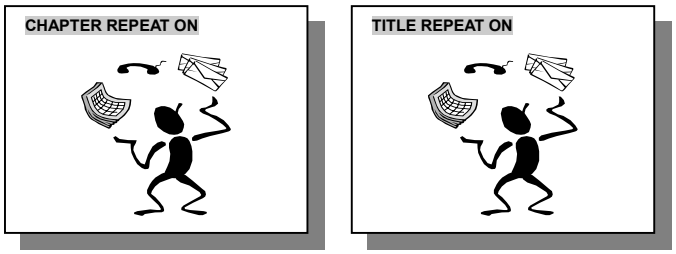
Enables the repeated playback of a chapter for a DVD disc or track for an Audio CD disc or a VCD disc.

☞ **TITLE REPEAT**

Enables the repeated playback of a title for a DVD disc or a disc for a Audio CD disc or a VCD disc.

☞ **REPEAT OFF**

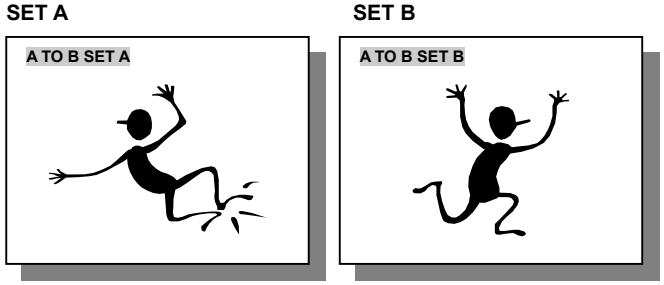
Resumes normal play.



A-B Repeat

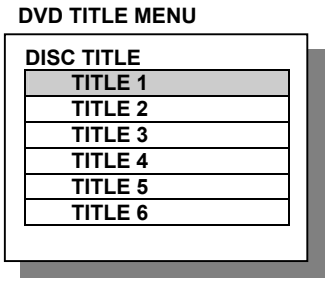
You are able to perform a repeated playback between any two points of a track or a chapter.

1. Press the A-B REPEAT button during playback to set the beginning point (A). The OSD message “A TO B SET A “ will be shown on the right lower screen corner.
2. Press the A-B REPEAT button again to set the end point (B). The OSD message “A TO B SET B ” will be shown. In the meantime, the repeated playback begins between the two points, A and B.
3. Pressing the A-B REPEAT button again resumes normal play. The OSD message “A TO B CANCELLED” will be shown.



TITLE MENU (DVD Only)

Some DVD discs have a title menu recorded within them to use for selecting titles for play. This feature will only work with these discs. .



☞ Use the ◄ ► ▲ ▼ buttons to control the direction and press the ENT/PLAY button to select the preferred title or you can directly press the numeric buttons to select the title.

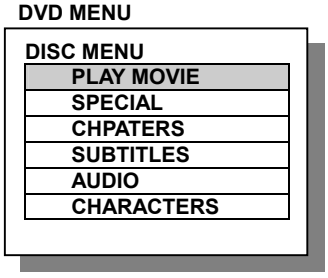
NOTE:

ⓘ DVD discs are divided into units referred to as titles, and titles are divided into chapters. Menu screens do not belong to any title. A disc that contains a movie may have only one title with many chapter divisions.

DVD MENU (DVD Only)

Some DVDs have complex contents such as multi-subtitle, multi-audio, or multi-angle. In these cases, you may use the DVD menu to select audio language, subtitle language, and angle.

1. Press the DVD MENU button during playback to display the DVD menu, if it is available on the disc.
2. Use the ◄ ► ▲ ▼ buttons to control the direction and press the ENT/PLAY button to select the preferred item. Or you can directly press the numeric buttons to select the item.
3. Pressing the DVD MENU button again resumes the playback of the scene when the DVD MENU button was first pressed.

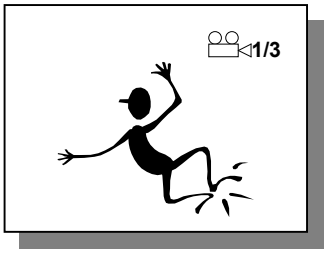


MULTI-ANGLE Playback

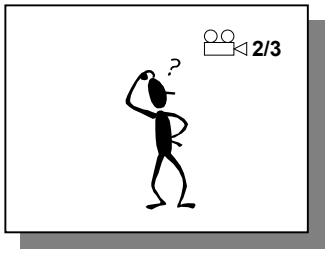
Some DVD discs may contain scenes with a number of different angle views. Whenever a scene with multiple angle views is played, you can use the ANGLE button to view this scene from different angles.

- ☞ The OSD icon " " will appear on the screen during the playback of a scene with multi-angle views.
- ☞ When the ANGLE button is pressed, the angle for playback will change in cycles among the available angle numbers.

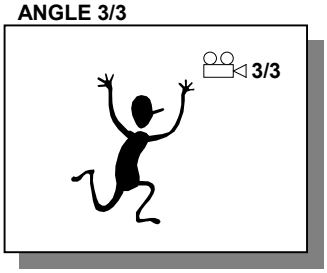
ANGLE 1/3



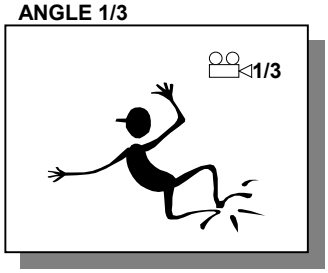
ANGLE 2/3



ANGLE 3/3



ANGLE 1/3



NOTES:

ⓘ The "ANGLE MARK" in the initial setting must be set to "ON."

Changing SUBTITLE During Playback

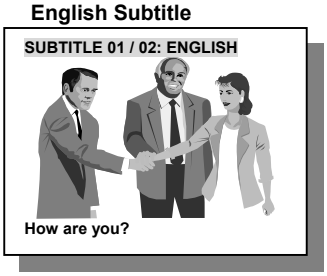
During playback of a DVD disc with more than two subtitle languages, you can change the subtitle or disable the subtitle by pressing the SUBTITLE button.

- ☞ When the SUBTITLE button is pressed, the subtitle for playback will change in cycles among the available subtitle numbers and “OFF” status. “ OFF” will disable the subtitle display.
- ☞ The OSD message will show the current subtitle number. If no selection is made, this OSD message will disappear after 3 seconds.

NOTES:

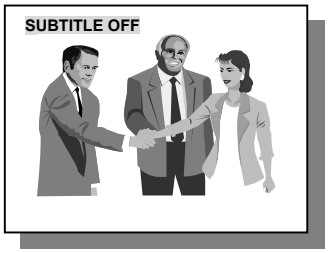
ⓘ “UNKNOW” will be displayed for languages that are not supported by the subtitle function in this player.

English Subtitle

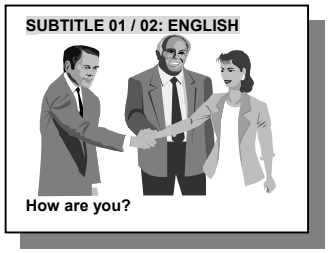


Chinese Subtitle

Subtitle Off



English Subtitle



NOTES:

ⓘ Sometimes the subtitle language can only be changed in DVD menu instead of during playback.

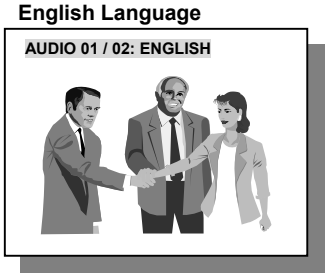
ⓘ The number of available subtitle language is depending on the disc.

Changing AUDIO LANGUAGE During Playback

During playback of a DVD disc with more than two audio languages, you can change the audio/language by pressing the AUDIO button.

- ☞ When the AUDIO button is pressed, the audio / language for playback will change in cycles among the available audio/language numbers.
- ☞ The OSD message will show the current subtitle number. If no selection is made, this OSD message will disappear after 3 seconds.

English Language



Chinese Language

NOTES:

ⓘ Sometimes the audio language can only be changed in DVD menu instead of during playback.

ⓘ The number of available audio language is depending on the disc.

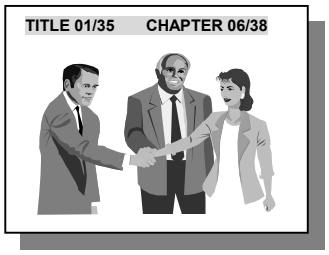
GOTO / DIRECT Function

Under the search mode, specific title, chapter, or time can be located for immediate playback.

DVD Search Functions

During a DVD playback, pressing the GOTO button can enable the search function. The OSD will show three search methods after pressing GOTO button one time and two times.

TITLE and CHAPTER search



TIME search

The “TITLE 01/35” indicates that the player is currently playing title no. 1 of 35 titles. The “CHAPTER 06/38” indicates that the player is currently playing chapter 6 of 38 chapters. The “TIME 00:20:12” indicates that the current playback time is 20 minutes and 12 seconds into the playback.

☞ To search by title, use the ◄ ► ▲ ▼ buttons to highlight the first two digits of the “TITLE nn/nn” section. Once highlighted, use the number keys on the remote to enter the title you want to play. Presses **ENT/PLAY** to complete your search selection.

☞ To search by chapter, use the ◄ ► ▲ ▼ buttons to highlight the first two digits of the “CHAPTER nn/nn” section. Once highlighted, use the number keys on the remote to enter the chapter you want to play. Presses **ENT/PLAY** to complete your search selection.

☞ To search by time, use the ◄ ► ▲ ▼ buttons to highlight the “TIME nn:nn:nn” section. Once highlighted, use the number keys on the remote to enter the time frame from which you want to play. Presses **ENT/PLAY** to complete your search selection.

VCD/Audio CD DIRECT Functions

During a VCD or Audio CD playback, this unit only supports the time search function.

1. Pressing the **GOTO** button during play will display the OSD for VCD/Audio CD search.

2. When the time is set, play from this position will start immediately.

VCD Search

Audio CD Search

NOTES:

ⓘ Audio CD playback’s background is start up logo.

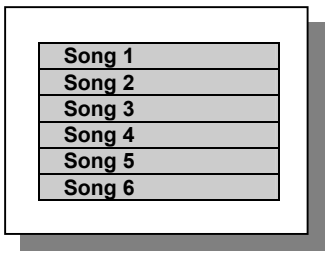
VCD PLAYBACK CONTROL (PBC)

This function is only available for Video-CD version 2.0 or higher. The PBC operation may differ by disc, therefore, refer to the instructions for each disc.

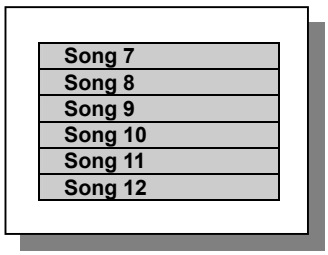
☞ Press the **DVD MENU** button to switch on/off the PBC function. The OSD message “PBC ON” or “PBC OFF” will be displayed.

☞ On the PBC menu, the **⏮ PREV** and **NEXT ⏭** buttons are dedicated for “GO BACK TO PREVIOUS PAGE” and “GO TO NEXT PAGE” of the PBC menu, if available.

VCD PBC MENU Page 1



VCD PBC MENU Page 2



Digit Buttons

On the PBC menu, all items must be selected and executed by using the number buttons only.

Working with JPEG Files

Section 1: What is a JPEG?

JPEG is short for the 'Joint Photographic Experts Group', a group of experts nominated to produce standards for continuous tone image coding.

The best known standard from JPEG is 10918-1 (ITU-T T.81), which is the first of a multi-part set of standards for still image compression. This allows you to create files (such as photographs, drawings, and most clip-art) that can be archived on a CD-R for viewing on the AD-1600/1700M, computer, or the web.

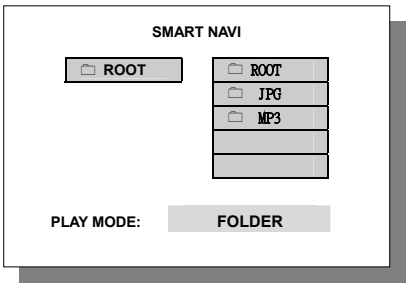
WHAT IS A PICTURE CD? PICTURE CD?

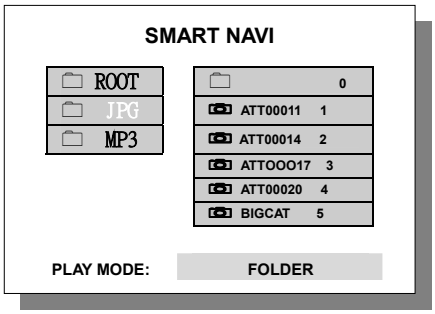
This DVD player provides with the ability to playback most JPEG files, that are commonly used for digital cameras, and KODAK Picture CDs to view your photos on a television in the comfort of your home from a CD-R!

PLAYING YOUR JPEG FILES

Normal Slide Show Presentation

When a JPEG disc is loaded into the player, a menu will appear on screen. From the **Play Mode** shown on the menu, select the **"FOLDER"** option using your direction keys. Each picture in the current directory will be displayed consecutively in a slideshow presentation and will be seated to the most of your TV screen. Nine slideshow "transition" modes are provided. Use **MENU** key to select.

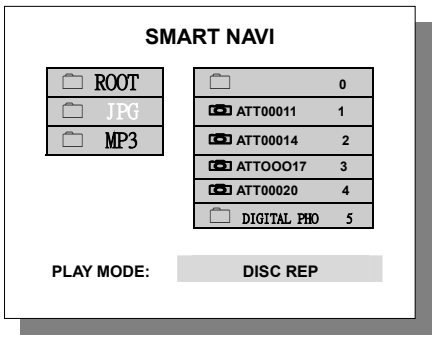


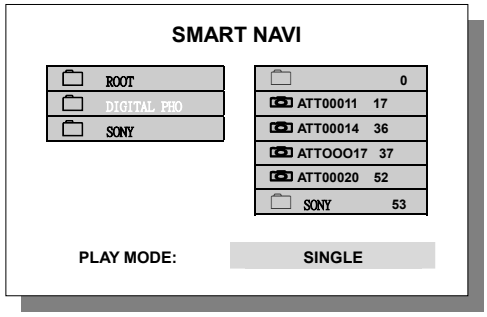


Use numeric keys to designate the number of the picture, from which the photos showing go on in the PLAY MODE accordingly.

CHANGE THE PLAY MODE PLAYING

Press ▶ to enter the PLAY MODE selection and press ▼ or ▲ for selection of the play modes of REP-ONE,SINGLE, FOLDER, FOLDER REP, DISC SCAN, DISC, DISC REP, , in sequence. And press ◀ back to Photo selection.





Note: From the play-mode shown on the menu you may also select the "**SINGLE**" option to view a picture indefinitely until **NEXT, PREVIOUS,** or **ENTER** key is selected.

IMAGE ROTATION

There are four modes to rotate a picture: **Invert, Mirror, Left,** and **Right**. These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow key are used to select the different rotation modes:

Up ▲ -Invert/Normal Down ▼-Mirror/Normal

Left ◀ -Turn left Right ▶ -Turn right

ZOOM

This features allows you to view a picture at the increments of 25%,50%,100%,150% and 200%. Press the ZOOM button. An on screen message ("**Zoom On**") will verify your selection. Use FWD ▶▶ and ◀◀ REV keys to control the amount of zoom in and out. Press the direction keys to move the picture in any direction. With "**Zoom Off**", the picture is scaled to fit most of your TV screen.

Note: When in the ZOOM mode, the slideshow transition and image transformation features are disabled.

MENU

The MENU/PBC key is used to display nine pieces of thumbnail picture. From the stop position, press the MENU/PBC key. After it is enabled, up to nine scaled-down thumbnails pictures will be displayed on the screen. The NEXT and PREV keys can be used to display the NEXT and PREV nine pictures in the current directory. Each of the nine pictures are numbered from 1-9. By pressing a number key, the corresponding picture will be enlarged to fill most of your TV screen and the digest mode will be cancelled.

MP3 Compatible Format

Start Playback

1. Place MP3 files recorded disc into the DVD player, then it will enter the menu of the disc automatically.

Note:

There will be no second menu if all the contents of the songs are recorded in the Root menu.

2. Please use ◀ ▶ ▲ ▼ arrow buttons for movement to select a track (song) and press ENT/PLAY button to play.

MP3 Root Menu

- ☞ During playback, for pausing playback, please press ■ / II button once on the remote control.
- ☞ During stop status, for stopping the playback and entering the root menu selection of the MP3 disc, please press ■ / II button twice on the remote control.

Song Selection

- ☞ Direct select with numeral keys

  Press the numeral button directly from 0 to 9 and +10 to select the song what you want.

  EX: If you want to select #25 song, you have to press +10 button twice and then press 5 button.
- ☞ Direct select with navigation keys

  Under stop status, you can use ◀ ▶ ▲ ▼ arrow buttons for movement to select a title/song, then press ENT/ PLAY button to confirm.

Fast Forward/Reverse Scan

- ☞ Under the status of playback, you can use the FWD ▶▶ and ◀◀ REV buttons to fast forward and reverse scan.
- ☞ When the FWD ▶▶ or ◀◀ REV button is pressed, the speed of playback changes in cycles of 1 → 2 → 3 → 4 → PLAY→ 1…
- ☞ When the ENT/PLAY button is pressed during fast forward/reverse scan, normal playback will be resumed.

Skip Playback

- ☞ Under the status of playback, you can use the NEXT ▶▶| and |◀◀PREV buttons to skip forward and reverse playback.

Pause Playback

- ☞ Pressing the ■ / II button during playback will pause the playback.
- ☞ To resume normal play, please press the ENT/PLAY .

Stop Playback

- ☞ Press the ■ / II button twice to stop playback.

NOTES:

- ⓘ Sometimes it will not have menu if all MP3 files are burned in the root directory (no sub-directory existence)
- ⓘ It sometimes takes a long time to load an MP3 disc; during this time no other function (Stop or Eject) can be accessed.
- ⓘ Even if the disc contains several sub directories, only the directory name of the folder where the MP3 files are stored is displayed.

Note:

- ⓘ When the unit is not in use, remove the disc and power off the player.

ADDITIONAL INFORMATION

GLOSSARY

DTS®

DTS® stands for Digital Theater System. DTS® Digital Surround is an encoded/decoded system, which delivers 5.1 channels of “master quality” 48KHz/20-bit audio sound.

AC-3 (Dolby® Digital)

A sound system developed by Dolby Laboratories, Inc. that gives movie theatre ambience to audio output when player is connected to a Dolby Digital 5.1 channel processor or amplifier.

MPEG

The word “MPEG” is short for Moving Picture Experts Group. This is an international standard for compression of audio. MPEG1 used on VCDs conforms to up to 2-channel stereo. MPEG 2 used on DVDs conforms to up to 7.1-channel surround. By connecting to an MPEG decoder or an AV amplifier with a built-in MPEG decoder, the MPEG audio of DVD discs recorded in this format can be played.

Dynamic Range

“Dynamic range” is the difference between the maximum level and the minimum level of sounds. Sounds on a movie originally designed for movie theaters feature a very wide dynamic range, so sometimes it is not suitable for home use. Depending on the condition of your listening environment, Dynamic Range function can reduce the instant sound effect alteration of the movie while playing back. When viewing movies at night, turn this function on to avoid sudden loud sounds from disturbing your neighbors.

Subtitles

Subtitles are captions of language superimposed on movies, etc. Up to 32 different subtitle languages can be recorded on one DVD disc. The subtitle function can be used to select the language of your choice.

Closed Captions

Closed Captions (CC) are a standardized method of encoding text into an NTSC television signal. A TV can display the text with a built-in decoder or by a separate decoder. All TVs larger than 13 inches sold in the US since 1993 have Closed Caption decoders. Closed Captions can be carried on DVD, videotape, broadcast TV, cable TV, and so on.

REGION MANAGEMENT INFORMATION

This DVD player is designed and manufactured to respond to the Region Management Information recorded on a DVD disc. If the region number described on the DVD disc does not correspond to the region number of this DVD player (The region number can be found on the rear panel of the DVD player), this DVD player will not play the disc. The OSD message “WRONG REGION” will show on the TV screen. This player will play DVD discs made for “ALL” regions. The illustration below shows the regions and corresponding region numbers.

❶ REGION 1 USA & Canada
❷ REGION 2 Europe, Japan, South Africa, Middle East
❸ REGION 3 Southeast Asia
❹ REGION 4 Central & South America, Australia, New Zealand
❺ REGION 5 Former Soviet Union, India, Pakistan, Africa
❻ REGION 6 China

How to change the regional coding!

On the remote control press **OPEN/CLOSE** when the tray is open key in 62818 + region (see above) 0 = Multi region. In rare cases the DVD is blocked so it is unable to be played in multi region DVD-Players. In these cases the regional coding must be set to the region indicated on the software.

LICENSE

“Dolby” License

Manufactured under license from Dolby Laboratories. “Dolby”, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.

DTS License

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Warning

ⓘ **The specifications and design of this product are subject to change without notice, due to improvement.**

TROUBLE SHOOTING

Before requesting service for this unit, please check the following chart for possible causes and remedies. If the remedies indicated in the chart below do not solve the problem, please consult your dealer for instructions.

Common Symptom	Possible Cause	Remedy
No power	✓ Power cord is not properly connected to the power outlet	✓ Make sure there is a connection between the power cord and the outlet.
Power turn off	✓ Auto power off function	✓ The power is automatically turned off after 20 minutes have elapsed in the stop mode (auto power off function). Turn the power back on.
Disc tray can't close	✓ Disc is not properly placed	✓ Replace the disc properly.
No playback	✓ Power is OFF ✓ No disc is inserted (“no disc” will be shown on screen). ✓ Disc is upside down. ("No disc” is shown on screen). ✓ Dirty disk ✓ Deformed disk ✓ Condensation in unit	✓ Turn the power ON. ✓ Insert a disc. ✓ Reload disk. The label side should face upward. ✓ Clean disc surface. ✓ Replace disc. ✓ Turn power on for 1-2 hours before using the unit.
Unwanted mosaic-like garbage display during playback	✓ Poor disc ✓ Video CD (MPEG1)	✓ Replace disc ✓ Playback with DVD format
No audio	✓ Slow or fast playback ✓ Audio terminals are not connected. ✓ TV volume is too low ✓ Wrong AUDIO OUTPUT setting	✓ Press [PLAY] to resume normal playback ✓ Check audio connections ✓ Adjust TV volume ✓ Check AUDIO OUTPUT setting
No Video	✓ Disconnection of video equipment ✓ Wrong output setting of VIDEO OUTPUT	✓ Check video connections ✓ Check video output setting of VIDEO OUTPUT in GENERAL SETUP
Remote control unit does not work	✓ No batteries in remote control ✓ Dead batteries ✓ Remote control not being pointed at the remote sensor	✓ Put in new batteries ✓ Replace batteries ✓ Point the remote control at the remote sensor

DVD Symptom	Possible Cause	Remedy
Does not play, even when a title is selected	✓ Prohibited by the parental rating	✓ Confirm the PARENTAL setting.
Audio or subtitle language is not the one selected during the initial setting.	✓ The selected language does not exist in the disc	✓ Select another language using [AUDIO] or [SUBTITLE]
Setting language is not what you want	✓ Wrong OSD language setting	✓ Check the OSD language setting
Audio or Subtitle can not be changed	✓ The disc contains only one language ✓ Some disc should be changed in DVD MENU.	✓ Check the disc contents.
The password for parental rating has been forgotten		✓ Use “3308” to override the forgotten password and re-enter a new password.
The video image brightness fluctuates during playback	✓ The DVD player is connected to the television via a video tape recorder	✓ Connect the DVD player directly to the TV, bypassing the VCR.
Can not fast scan during playback of DVD movie.	✓ Some discs may have sections, which prohibit skip or scan operations by users.	✓ No operation can be done during this problem.

SPECIFICATION

Power requirement	AC100-240 V, 50/60 Hz
Power consumption	<20 W (approx. 5W at standby mode)
Weight	3.5Kg / 7.72 pound.
Dimensions (W x D x H)	430x250x50 (mm) / 16.9 x 9.8 x 2.0 (Inch)
Operating temperature range	+5 °C to +40 °C / 41℉～ 104 ℉
Operating humidity range	5 % to 90 % (no condensation)

Video system		NTSC 525/60 Hz
S-video terminal	Y output level	1 Vp-p (75 Ω)
	C output level	PAL / 0.28 Vp-p (75 Ω) NTSC
Composite video terminal		1 Vp-p (75 Ω)

Audio parameters	Frequency Response	20Hz ~ 20kHz
	Dynamic Range	96 dB
	S/N Ratio	110 dB
	Distortion	< 0.01%
	Output level	1.8±0.2Vrms

1. First class laser product.
2. Danger: when the internal functions are out of order or damaged, opening the cover may cause unseen radioactivity. It should be kept away from direct light.
3. Caution: Do not open the top cover. No internal part should be maintained or serviced by the user. Qualified person should carry out all such work.

Rating labels on the back of the machine

CLASS 1
LASER PRODUCT

- Features and specifications are subject to change without notice.
- Weight and dimensions are approximate.

Eltax DVD
DV-100

www.eltax.com